



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

August 7, 2020

Premjit Halarnkar, Ph.D., MPA
Global Head of Regulatory Affairs
CH Biotech R&D Co., Ltd., c/o CH Biotech LLC.
601 Kettering Drive
Ontario, CA 91761

Subject: Non-PRIA (Pesticide Registration Improvement Act) Labeling Amendment – Revisions to the Directions for Use to Add Approved Crops, Revise Application rates and Reformat Text and Tables
Product Name: Promote
EPA Registration Number: 90866-23
Application Date: 03/18/2020
OPP Decision Number: 561648

Dear Dr. Halarnkar:

The amended labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable.

This approval does not affect any terms or conditions that were previously imposed on this registration. You continue to be subject to existing terms or conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one (1) copy of the final printed labeling before you release this product for shipment with the new labeling. In accordance with 40 CFR § 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR § 152.3.

Should you wish to add/retain a reference to your company's website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the U.S. Environmental Protection Agency (EPA). If the website is false or misleading, the product will be considered to be misbranded and sale or distribution of the product is unlawful under FIFRA section 12(a)(1)(E). 40 CFR § 156.10(a)(5) lists examples of statements the EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration

Page 2 of 2

EPA Reg. No. 90866-23

OPP Decision No. 561648

process. Therefore, should the EPA find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA-approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance Assurance.

Your release for shipment of this product constitutes acceptance of these terms. If these terms are not complied with, this registration will be subject to cancellation in accordance with FIFRA section 6.

If you have any questions, please contact Alex Horansky by phone at (703) 347-0128 or via email at Horansky.alex@epa.gov.

Sincerely,



Andrew Bryceland, Team Leader
Biochemical Pesticides Branch
Biopesticides and Pollution
Prevention Division (7511P)
Office of Pesticide Programs

Enclosure



Promote™

A plant growth regulator for enhancing shoot and root growth, photosynthesis, abiotic stress resistance, mineral uptake, and production of listed crops

ACTIVE INGREDIENTS:	By Wt.
Cytokinin (as kinetin):	0.12%
Gamma Aminobutyric Acid (GABA):.....	1.00%
Choline Chloride:.....	2.00%
OTHER INGREDIENTS:	<u>96.88%</u>
TOTAL:	100.00%

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

See(back) (side) panel for additional Precautionary Statements and Directions for Use

First Aid	
If in eyes:	<ul style="list-style-type: none"> Hold eye open and rinse slowly and gently with water for 15 to 20 minutes Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye Call a poison control center or doctor for treatment advice
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For non-emergency information concerning this product, call the National Pesticides Information Center (NPIC) at 1-800-858-7378 (NPIC Web site: www.npic.orst.edu). For general product information, call CH Biotech LLC at (909) 472-3033 between the hours of 9 a.m. – 4 p.m. Pacific Time.	

EPA REG. NO. 90866-23

EPA EST. NO. 90866-CA-001

Produced for: CH Biotech R&D Co., Ltd.
 By CH Biotech LLC.
 601 Kettering Drive, Ontario, CA 91761
 Tel: 909-472-3033
 Email: info@chbio.com

Net Contents: _____
 Batch No. _____

**PRECAUTIONARY STATEMENTS
HAZARD TO HUMANS AND DOMESTIC ANIMALS**

CAUTION. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using toilet.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks

Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

- Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

For Terrestrial Uses: Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean highwater mark. Do not contaminate water when disposing of equipment wash waters or rinsate.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during applications. For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), notification to workers, and restricted-entry interval. The requirements in this box apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 4 hours.

PPE required for early entry to treated areas (that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water), is: coveralls, socks, shoes, chemical resistant gloves.

PRODUCT INFORMATION

Promote™ is a plant growth regulator for enhancing shoot and root growth, photosynthesis, abiotic stress resistance, and mineral uptake. Promote is specifically designed to enhance fruit/grain growth on the crops listed below. It supports the development of reproductive tissues, pollination of flowers and retention of seeds and fruits. The fortified cytokinin in Promote allows better management of yield and quality for production of labeled crops.

Always make a sample of Promote and other products to determine tank mix compatibility prior to application.

Mix the specified amount of Promote in water to create a 1% solution and apply with sufficient volume for uniform and thorough coverage of foliage and/or fruit. Due to reduced coverage with carrier rates of 5 gallons per acre or less, aerial application requires a minimum dose of 12.8 oz./acre (see footnote ⁽³⁾ below). Refer to the specific mixing rates in the table below.

Generally Recommended Spray Volume (Gal/Acre)

CROP/CROP GROUP	GROUND		AIR	
	Adequate Coverage	Best Coverage	Adequate Coverage	Best Coverage
Field Crops, Miscellaneous	10.0	20.0	2.0	5.0
Berry and Small Fruits, Vegetables, Vines	25.0	100.0	5.0	10.0
Pome Fruits, Stone Fruits, Tree Crops and Tree Nuts	50.0	100.0	10.0	20.0
Citrus	50.0	100.0	10.0	20.0

APPLICATION INSTRUCTIONS

Crop/Crop Group	Application Timing	Rate/Acre	Ground Application
			Water Volume/Acre
Brassica Vegetables Group. [Crops such as Broccoli, Cauliflower, Cabbage, and Mustard greens]	1 st application: at pre-button stage	32.0 to 51.0 fl. oz. ⁽³⁾	25.0 to 40.0 gal.
	2 nd application: as needed, 21 days after first application		
Bulb Vegetables Group. [Crops such as garlic, leek, and onion]	1 st application: at 4-6 leaf stage	32.0 to 64.0 fl. oz.	25.0 to 50.0 gal.
	2 nd application: can be made after bulb bulking begins		
Cotton, acala, pima, and short staple varieties	1 st application: at first bloom	12.8 to 32.0 fl. oz. ⁽³⁾	10.0 to 25.0 gal.
	2 nd application: 14-21 days later if needed. When combining with fungicides assure thorough coverage.		

Coffee	Apply at beginning of flowering; additional applications may be made at 30-day interval as needed	64.0 to 128.0 fl. oz.	50.0 to 100.0 gal.
Cucurbit Vegetables Group. [Crops such as Cucumber, Cantaloupe, Honeydew, Muskmelon, Summer squash, and Watermelon]	1 st application: at early fruiting stage	19.0 to 77.0 fl. oz. ⁽³⁾	15.0 to 60.0 gal.
	2 nd application: as needed, 21 days after first application		
Fruiting Vegetables Group. [Crops such as Tomato, Eggplant, and Pepper]	1 st application: at bloom	19.0 to 77.0 fl. oz. ⁽³⁾	15.0 to 60.0 gal.
	2 nd application: as needed, 21 days after first application		
Pome Fruits Group. [Crops such as Apple and Pear]	1 st application: post thinning unless diminished bloom creates a need to save fruit, then first application at bloom	64.0 to 128.0 fl. oz.	50.0 to 100.0 gal.
	2 nd application: as needed, 21 days after first application		
Small Fruits Groups. [Crops such as Blackberry, Blueberry, Raspberry, and Strawberry]	1 st application: at bloom	32.0 to 96.0 fl. oz. ⁽³⁾	25.0 to 75.0 gal.
	2 nd application: as needed, 21 days after first application		
Stone Fruits Group. [Crops such as Cherry, Peach, Nectarine, Apricot, and Plum]	1 st application: post thinning unless diminished bloom creates a need to save fruit, then first application at bloom	64.0 to 128.0 fl. oz.	50.0 to 100.0 gal.
	2 nd application: as needed, 21 days after first application		
Grapes including table, wine, and raisin varieties	1 st application: at early bloom	32.0 to 51.0 fl. oz. ⁽³⁾	25.0 to 40.0 gal.
	2 nd application: as needed, 21 days after first application	64.0 to 128.0 fl. oz.	50.0 to 100.0 gal.
Herbs and Spice Group. [Crops such as Basil, Dill, Mustard, and Sage]	1 st application: during mid-season growth	32.0 to 51.6 fl. oz. ⁽³⁾	25.0 to 40.0 gal.
	2 nd application: as needed, 21 days after first application		
Hemp	1 st application: at early bloom	19.0 to 64.0 fl. oz. ⁽³⁾	15.0 to 50.0 gal.
	2 nd application: as needed, 21 days after first application		
Hops	1 st application: at inflorescence emergence	32.0 to 96.0 fl. oz.	25.0 to 75.0 gal.
	2 nd application: may be made 14-21 days later		
Leafy Vegetables Group. [Crops such as	1 st application: during mid-season growth	16.0 to 25.6 fl. oz. ⁽³⁾	25.0 to 40.0 gal.

Celery, Head lettuce, Leaf lettuce, and Spinach]	2 nd application: as needed, 21 days after first application		
Legume Vegetables Groups. (succulent and dried) [Crops such as Beans (all types), Peas, and Soybeans ⁽¹⁾⁽²⁾]	Begin applications at 10% bloom	12.8 to 32.0 fl. oz. ⁽³⁾	10.0 to 25.0 gal.
	2 nd application: as needed, 21 days after first application. When combining with fungicides assure thorough coverage.		
Oil Seed Crops Group. [Crops such as Canola ⁽¹⁾⁽²⁾ , Flax, and Sunflower]	1 st application: at flower to full flower. When combining with fungicides assure thorough coverage.	12.8 to 32.0 fl. oz. ⁽³⁾	10.0 to 25.0 gal.
	2 nd application: as needed, 21 days after first application		
Corn ⁽¹⁾⁽²⁾ (field pop, sweet)	Make 1 st application from just before tassel, up until full tassel. When combining with fungicides assure thorough coverage.	12.8 to 32.0 fl. oz. ⁽³⁾	10.0 to 25.0 gal.
	2 nd application: may be made 14 days later		
Citrus Fruit Group. [Crops such as Grapefruit, Lemon, Lime, Sweet Orange, and Tangerine]	1 st application: at bloom	64.0 to 128.0 fl. oz.	50.0 to 100.0 gal.
	2 nd application: as needed, 21 days after first application		
Small Grains Group. [Crops such as Barley, Millet, Oat, Rice, Rye, Sorghum, and Wheat]	1 st application: at vegetative stage, before bloom until grain set	12.8 to 32.0 fl. oz. ⁽³⁾	10.0 to 25.0 gal.
Root Vegetables Group. [Crops such as Carrot, Ginseng, Horseradish, Parsley (turnip-rooted) Radish, and Turnip]	Application at 4-6 leaf stage	19.0 to 32.0 fl. oz. ⁽³⁾	15.0 to 25.0 gal.
Sugar beet	Application at 6-8 leaf stage for root size Apply at row closure to increase sugar production	19.0 to 32.0 fl. oz. ⁽³⁾	15.0 to 25.0 gal.
Tree Nuts Group. [Crops such as Almond, Pistachio, Walnut, and Pecan]	1 st application: at 10% to full bloom	64.0 to 128.0 fl. oz.	50.0 to 100.0 gal.
	2 nd application: at small fruit set		
Tuber Vegetables Group. [Crops such as Potato, Sweet potato, and Yam]	1 st application: at tuber bulking stage or bloom	19.0 to 32.0 fl. oz. ⁽³⁾	15.0 to 25.0 gal.

⁽¹⁾This product can be tank mixed with glyphosate products registered for use on Roundup Ready® crops.

⁽²⁾This product can be tank mixed with products registered for use on LibertyLink® crops.

⁽³⁾Carrier volumes with 10 gallons per acre or less requires the use of 12.8 oz./acre minimum due to reduced coverage, which includes aerial applications.

For Greenhouse Establishment or Production

Crop Group	Amount of Promote	Application Directions and Timing
Leafy Vegetables Group. [Crops such as Celery, Head and leaf lettuce, Kale, Spinach, and Herbs]	128.0 oz/100 gallons in 30 to 80 gallons per acre	<ul style="list-style-type: none"> 1st application: mid vegetative growth 2nd application: can be made 21 to 30 days later
Fruiting Vegetables Group. [Crops such as Eggplant, Pepper, and Tomato]	128.0 oz/100 gallons in 30 to 80 gallons per acre	<ul style="list-style-type: none"> 1st application: at bloom 2nd application: can be made 21 to 30 days later

ORNAMENTALS

Greenhouse and nursery grown ornamentals

Differences in responsiveness may vary from one cultivar to another or from one set of growing conditions to another. Unless previous experience dictates otherwise, prior to widespread use, test a small number of plants from each cultivar to verify desired efficacy.

APPLICATION INSTRUCTIONS

Promote is applied to foliage of ornamentals and leaves of bedding plants. Mixing instructions: dilute 12.8 fluid ounces of Promote in 10 gallons (379 mL/10 gal) of water (1:100 dilution); for smaller quantities, mix 1.3 fluid ounces Promote (2.6 Tbsp or 3.8 L) per 1 gallon of water. Use sufficient volume of water to obtain uniform coverage. Thorough coverage is necessary for best results.

Plant	Timing	Promote Rate	Volume of Water
Foliage Plants: Aglaonema, Ajuga, Anthurium, Aphelandra, Caladium, Cissus, Dieffenbachia, Dracaena, Ficus, Fittonia, Gynura, Hoya, Maranta, Palms, Peperomia, Philodendron, Pilea, Pothos, Schefflera, Schlumbergera, Spathiphyllum, Syngonium, Tradescantia and similar foliage plants	1 st application: at the beginning of the season	1.3 oz.	1.0 gal.
	Subsequent applications: spray foliage 2-3 times throughout the year at even intervals	12.8 oz.	10.0 gal.
Bedding and Flowering Plants: Abutilon, Aglais, Alyssum, Calceolaria, Canna, Carnation, Champaca, Chrysanthemum	Bedding Plants: 1 st application: at 3-5 leaf stage	1.3 oz.	1.0 gal.

Cineraria, Columbine, Coral Bells, Cyclamen, Dahlia, Delphinium, Dianthus, Foxglove, Fuchsia, Gardenia, Gazania, Geranium, Gladiolus, Gloxinia, Impatiens, Iris, Jasminum, Lily, Lupine, Marigold, Michelia, Monarda, Osmachus, Petunia, Poinsettia, Portulaca, Roses, Salvia, Scabiosa, Sedum, Sempervivum, Tulips, Vinca, Zinnia, and similar plants	2 nd application: at 10 to 14 days prior to sale	5.2 oz.	4.0 gal.
	Established Plants: 1 st application: at 21 to 30 days after transplanting or in the Spring as re-growth begins 2 nd application: at flowering or minimum 21 days after first application	12.8 oz.	10.0 gal.
Woody Ornamentals: Arborvitae, Aucuba, Azalea, Boxwood, Carissa, Chinese magnolia, English Ivy, Holly, Juniper, Maple, Pine, Podocarpus, Rhododendron, Viburnum, and similar plants	1 st application: early in the season as new growth begins Subsequent applications: every 30 days as necessary	12.8 oz.	10.0 gal.
Garden Grown Tree Fruits: Apple, Asian pear, Apricot, Cherry, Fig, Guava, Grape, Jujube, Kumquat, Lemon, Litchi, Longara, Mango, Orange, Peach, Persimmon, Plum, Prunus, Starfruit and similar plants	1 st application: when fruit size is approximately 3-5 mm 2 nd application: 40 days prior to harvest	5.2 oz.	4.0 gal.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal.

PESTICIDE STORAGE: Keep containers tightly closed when not in use.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER HANDLING: Non-refillable container. Do not reuse or refill this container.

Triple Rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke. **For chemical spill, leak, fire or exposure, call CHEMTREC at 1-800-424-9300.**

LIMITED WARRANTY AND DISCLAIMER

The manufacturer warrants that this product conforms to the chemical description on the label; that this product is reasonably fit for the purposes set forth in the Directions for Use when it is used in accordance with such Directions; and that the Directions, and other statements on this label, are based upon responsible experts' evaluation of reasonable tests of effectiveness, of toxicity to laboratory animals and to plants, and of residues on food crops and upon reports of field experience. Tests have not been made on all varieties or in all states or under all conditions.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE MANUFACTURER NEITHER MAKES NOR INTENDS, NOR DOES IT AUTHORIZE ANY AGENT OR REPRESENTATIVE TO MAKE, ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, AND IT EXPRESSLY EXCLUDES AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW THIS WARRANTY DOES NOT EXTEND TO, AND THE BUYER SHALL BE SOLELY RESPONSIBLE FOR, ANY AND ALL LOSS OR DAMAGE WHICH RESULTS FROM THE USE OF THIS PRODUCT IN ANY MANNER WHICH IS INCONSISTENT WITH THE LABEL DIRECTIONS. BUYER'S EXCLUSIVE REMEDY AND MANUFACTURER'S OR SELLER'S EXCLUSIVE LIABILITY FOR ANY AND ALL CLAIMS, LOSSES, DAMAGES OR INJURIES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER OR NOT BASED IN CONTRACT, NEGLIGENCE, STRICT LIABILITY IN TORT OR OTHERWISE SHALL BE LIMITED, TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, AT THE MANUFACTURER'S OPTION, TO REPLACEMENT OF, OR THE REPAYMENT OF THE PURCHASE PRICE FOR, THE QUANTITY OF PRODUCT WITH RESPECT TO WHICH DAMAGES ARE CLAIMED. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, IN NO EVENT SHALL MANUFACTURER OR SELLER BE LIABLE FOR SPECIAL, INDIRECT, INCONSEQUENTIAL, OR PUNITIVE DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

Promote™ is a trademark of CH Biotech R&D Co., Ltd.

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LibertyLink ® is a registered trademark of Bayer CropScience

Formulated By
CH Biotech R&D Co., Ltd.
601 Kettering Drive
Ontario, CA 91761